

WHAT IS CLAIMED IS:

1. A coupling for connecting a driving machine part and a driven machine part, comprising:  
an intermediate shaft defining a shaft axis and having two shaft ends; and  
a first articulated lever coupling disposed at one of the two shaft ends and having at least three identical articulated levers, each lever having two lever ends and an elastic joint defining a joint axis disposed at each lever end, each lever engaging with the intermediate shaft and one of the driving machine part and the driven machine part via the elastic joints, wherein each lever has a corresponding axial plane being parallel to the respective lever and passing through an axis of the driving machine part, an axis of the driven machine part, and the shaft axis, and wherein the joint axes of each lever are disposed perpendicular to the corresponding axial plane.
2. The coupling as recited in claim 1, further comprising a second articulated lever coupling disposed at the other of the two shaft ends and having at least three identical articulated second levers, each second lever having two second lever ends and an elastic second joint defining a second joint axis disposed at each second lever end, each second lever engaging with the intermediate shaft and one of the driving machine part and the driven machine part via the elastic second joints, wherein each second lever has a corresponding axial second plane being parallel to the respective second lever and passing through an axis of the driving machine part, an axis of the driven machine part, and the shaft axis, and wherein the second joint axes of each second lever are disposed perpendicular to the corresponding axial second plane.
3. The coupling as recited in claim 1, wherein the driving machine part includes at least one of a shaft, a wheel, a hub, and a gear.
4. The coupling as recited in claim 1, wherein the driven machine part includes at least one of a shaft, a wheel, a hub, and a gear.
5. The coupling as recited in claim 1, wherein the joint axes of each articulated lever are parallel to one another.

6. The coupling as recited in claim 1, wherein the at least three articulated includes four or six articulated levers, and each corresponding axial plane passes through a center of two of the articulated levers.
7. The coupling as recited in claim 1, wherein the joint axes lie in a radial plane.
8. The coupling as recited in claim 1, wherein the intermediate shaft includes at least one first connecting flange, and the driving machine part and the driven machine part each include at least one second connecting flange.
9. The coupling as recited in claim 8, wherein each of the first and second connecting flanges include a radially and axially protruding claw.
10. The coupling as recited in claim 9, wherein each of the claws carries at least one bearing journal corresponding to one of the joints.
11. The coupling as recited in claim 10, wherein each of the claws is integrally connected to the at least one bearing journal.
12. The coupling as recited in claim 10, wherein each of the at least one bearing journals has a conical shape for a blocking or non-blocking conical seating.
13. The coupling as recited in claim 1, wherein each of the joints includes a bearing.
14. The coupling as recited in claim 13, wherein the bearing is spherical.
15. The coupling as recited in claim 1, wherein at least one of the joints includes a cylindrical bearing.

16. The coupling as recited in claim 13, wherein the bearing includes an elastomer layer bonded to an adjacent metal part of the joint by vulcanization.
17. The coupling as recited in claim 1, wherein each of the articulated levers includes an outer bearing shell including a protruding lug.
18. The coupling as recited in claim 10, wherein the at least one bearing journal is attached to one of the first and second connecting flanges.
19. The coupling as recited in claim 1, wherein the articulated levers are lamellar in an axial direction of the intermediate shaft.